

(No Model.)

J. W. BRADLEY.

VALVE MECHANISM.

No. 280,011.

Patented June 26, 1883.

Fig. 1.

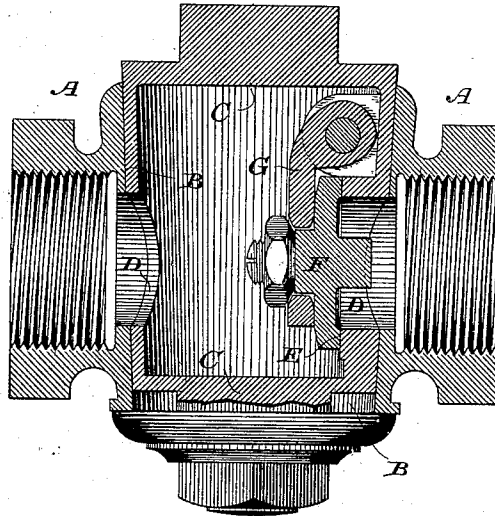
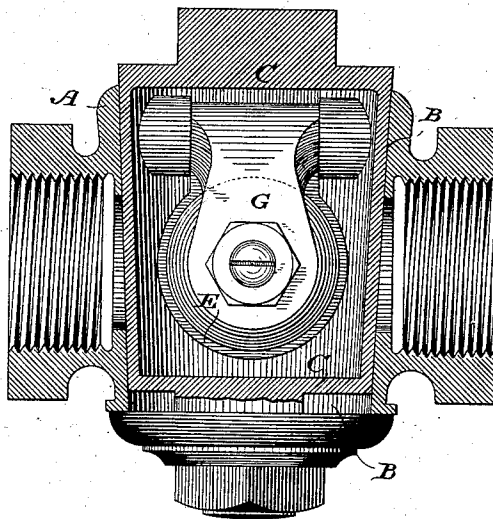


Fig. 2.



WITNESSES

Wm A. Shinkle
H. W. Elmore

INVENTOR

John W. Bradley
By his Attorneys
Baldwin, Hopkins, & Peyton.

UNITED STATES PATENT OFFICE.

JOHN W. BRADLEY, OF STRATFORD, ASSIGNOR OF ONE-HALF TO THE
BELKNAP MANUFACTURING COMPANY, OF BRIDGEPORT, CONN.

VALVE MECHANISM.

SPECIFICATION forming part of Letters Patent No. 280,011, dated June 26, 1883.

Application filed January 23, 1883. (No model.)

To all whom it may concern:

Be it known that I, JOHN W. BRADLEY, of Stratford, in the county of Fairfield and State of Connecticut, have invented a certain new and useful Improvement in Valve Mechanism, of which the following is a specification, reference being had to the accompanying drawings.

My invention relates, particularly, to the combination of a check-valve with a stop-cock, the object being to make the check-valve within the stop-cock, so as to diminish the expense of manufacture and economize space, and produce a single device, applicable wherever both a stop-cock and a check-valve are desirable.

In the accompanying drawings, Figure 1 is a central section of my improved valve mechanism, showing the bottom part in elevation; and Fig. 2 is also a similar central section of the shell, but shows a section of the valve-plug, taken at right angles with the section shown in Fig. 1, and within the plug is exhibited the hinge-valve in plan.

Referring to the letters upon the drawings, A indicates a shell provided with a central transverse opening, B, for receiving a stop-cock plug, and having upon either end a screw-thread or other suitable or ordinary means for making pipe-connections.

C indicates a stop-cock plug provided with transverse openings D for permitting the passage of steam, water, or other fluids in the usual way. This plug is fitted and secured in place, and provided with means for turning it in any ordinary or usual way, so that it may present its transverse openings D in line with the pipe-openings in the shell, or be turned to present its side to the pipe-openings, and thus permit or prevent the passage of gas or liquid. As described thus far, the device presents no

novelty; but I make the plug C hollow, with openings through it on the same plane with the openings in the shell, and provide it with a valve-seat, E, and a valve-disk, F, of any suitable character to constitute a check-valve.

In the drawings I have illustrated a disk-valve hinged by means of an arm, G, which is a good form of valve; but any other suitable form of valve may be employed within the hollow plug. Thus it will be seen I provide a combined stop-cock and check-valve in one; and it will further be observed that my check-valve is capable of operating in either direction, because when turned so as to be opposite and adjacent to one pipe-connection it will permit a flow in one direction, and when turned half around, so as to be opposite and adjacent to the other pipe-connection, it will permit a flow in the other direction. Thus I am enabled to transfer fluids from one receptacle to another and back again without providing separate and independent means for the two purposes, which is a great economy.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

The combination of a shell with openings through it on the same plane, and the hollow stop-cock plug with openings through it on the same plane with the openings in the shell, and provided with a check-valve, substantially as set forth, whereby fluid may be passed in either direction, substantially as set forth.

In testimony whereof I have hereunto subscribed my name this 19th day of January, A. D. 1883.

JOHN W. BRADLEY.

Witnesses:

A. H. WARNER,
D. T. ELLIS.